
President's Information Technology Advisory Committee

Digital Libraries Panel

David Nagel, Chair

February 7, 2001

Digital Libraries Panel Briefing Outline

- **Members**
- **Panel Charter**
- **February 24, 2000, meeting**
- **May 17, 2000, meeting**
- **September 19, 2000, meeting**
- **Findings and recommendations**
- **Next steps**
 - **Obtain PITAC approval**
 - **PITAC sends report to the President and Congress**

Digital Libraries Panel Members

- **Chair**
 - **Dave Nagel**
- **PITAC Members**
 - **Ching-chih Chen**
 - **Hector Garcia-Molina**
 - **Jim Gray**
 - **Bob Kahn**
 - **Raj Reddy**

Digital Libraries Panel Charter

- **Digital libraries are fundamental enabling technologies for all 10 "critical National Challenge Transformations" described in the PITAC's February 1999 report.**
- **The goal of this panel is to develop a technology research agenda and rationale for the digital libraries R&D that must be conducted in order to realize these transformations.**

February 24, 2000, Digital Libraries Panel Briefings

- | | |
|--|---|
| • Intellectual Property Rights | Alan Inouye, CSTB |
| • Federal Statistics | Katherine Wallman,
OMB |
| • Digital Library for Science and
Engineering Education | James Lightbourne,
NSF/EHR/DUE |
| • Geo-spatial Data | Barbara Ryan, USGS |
| • Biomedical Research and Health Care
Applications | Milton Corn, NIH/NLM |
| • Metadata Issues | Clifford Lynch, CNI |
| • Digital Libraries R&D at NSF | Michael Lesk,
NSF/CISE/IIS |

May 17, 2000, Digital Libraries Panel Briefings

- | | |
|---|----------------------------------|
| • DL R&D at NOAA | Bill Turnbull |
| • DL R&D at NASA | Milt Halem |
| • The Interagency DL Initiative | Steve Griffin, NSF |
| • DL for Humanities | George Farr, NEH |
| • Publishing Paper Archives on the Web | Yann LeCun, AT&T Labs |
| • Language and Information Processing | Alexa McCray, NIH/NLM |

September 19, 2000, Digital Libraries Panel Briefings

- **A Vision for a Digital Library
for the Physical Sciences** **Walter Warnick, DOE**
- **Building on the National Digital Library
Program: Digital Libraries within
Libraries** **Caroline Arms,
Library of Congress**
- **Lessons Learned in Archiving the Internet** **Brewster Kahle,
Alexa Internet**

Digital Libraries Panel Findings

- 1. Although the popularity and utility of the Internet, particularly the World Wide Web, has begun to reveal the power of digital libraries, the full potential of today's digital libraries to support the national challenge transformations has not yet been realized.**
- 2. The Federal government has exercised early and significant leadership in developing digital library technologies with modest investment (e.g., in multi-agency Digital Library Initiatives and in building and providing access to libraries of scientific data). However, the Government can and should do much more to further the science, technology, and creation of digital libraries.**
- 3. Libraries, museums, archives, and holders of other digital library collections face significant technical and operational challenges as they migrate to and maintain their holdings in digital form.**
- 4. Intellectual property rights need to be addressed in order to facilitate the creation of and access to digital libraries.**

Digital Libraries Panel Recommendations

1. Support expanded digital library research in:

Metadata and metadata use	Intellectual property rights
Scalability	Privacy and security
Interoperability	Human use
Archival storage and preservation	

2. Establish large-scale digital library testbeds.

3. The Federal government should provide the necessary resources to make all public Federal material persistently available in digital form on the Internet.

4. The Federal government should play a leadership role in evolving policy to deal fairly with intellectual property rights in the digital age.